

### PLASTIC MOULD STEEL

#### CHEMICAL COMPOSITION (IN WEIGHT-%)

| C    | Si   | Mn  | Cr   | Mo   |
|------|------|-----|------|------|
| 0.39 | 0.25 | 0.9 | 1.00 | 0.20 |

#### STEEL PROPERTIES

- » Prehardened plastic mould steel
- » Supplied hardness 262 - 321 HB
- » Good machinability
- » Suitable for texturing
- » Better polishability than Formadur 2312

#### APPLICATIONS

- » Plastic injection moulds
- » Mould frames for plastic moulds  
as well as high pressure die casting moulds
- » Mould bases

#### STANDARDS AND DESIGNATIONS

|      |      |
|------|------|
| AISI | 4140 |
|------|------|

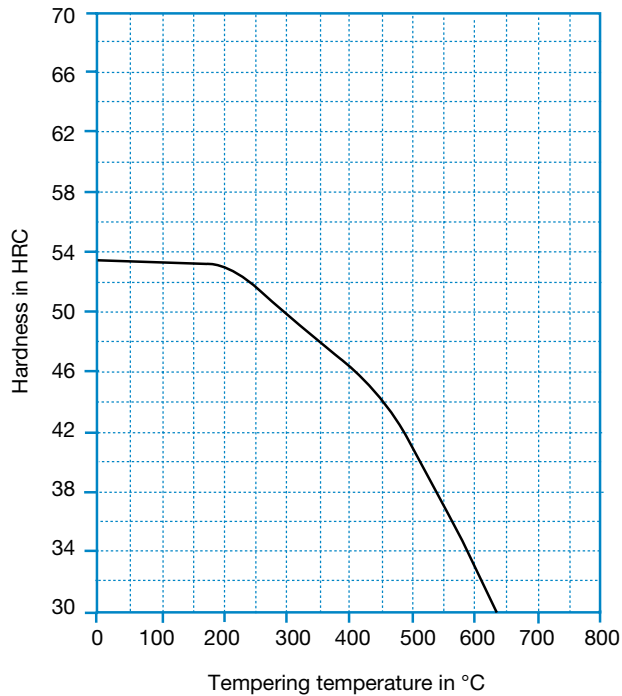
#### HEAT TREATMENT

|                     | Temperature | Cooling     | Hardness                             |
|---------------------|-------------|-------------|--------------------------------------|
| Soft annealing (+A) | 680 - 720°C | furnace     | max. 241 HB                          |
| Hardening           | 820 - 860°C | oil / water | 53 HRC<br>(hardness after quenching) |

#### TEMPERING

| Tempering temperature in °C | 100 | 200 | 300 | 400 | 500 | 550 | 600 | 650 | 700 |
|-----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Hardness in HRC             | 53  | 53  | 49  | 46  | 40  | 36  | 32  | 27  | 20  |

### TEMPERING DIAGRAM



### DELIVERY PROGRAM

You can find our complete delivery programme in the brochure „High-tech Steel Solutions for Tomorrow’s World (Products and Services)“ on [www.dew-stahl.com](http://www.dew-stahl.com).

We reserve the right to change the content of our technical datasheets without prior notice at any time to remove and/or edit in any way. Errors and misprints reserved.

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### CONTINUOUS TIME-TEMPERATURE-TRANSFORMATION DIAGRAM

